**Comptia A+**

To watch the below video, you need to right click on the Hyperlink just below the highlighted task in red color and select the Open Hyperlink option. It will take you to the YouTube where you can watch the concerned video.

You are required to watch the video and answer the Questions asked below.

You need to type answers in the row indicated with “Ans.”

**What is CPU?**

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| **CPU**  <https://drive.google.com/file/d/13wpvO2dc6FUU5t9RGeNoZrzAHqKFSAPu/view?usp=sharing> | |
| 1 | CPU stands for? |
| Ans. | CENTRAL PROCESSING UNIT |
| 2 | CPU is also known as? |
| Ans. | The Central Processing Unit (CPU) is the primary component of a computer that acts as its “control center.” The CPU, also referred to as the “central” or “main” processor, is a complex set of electronic circuitry that runs the machine's |
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| 4 | What are the types of CPU socket? |
| Ans. | Pin Grid Array (PGA) and the Land Grid Array (LGA). The difference between the two is that PGA places the pins on the processor and the holes in the socket, whereas LGA has a socket with pins that you place the processor on. |
| 5 | LGA stands for? |
| Ans. | The land grid array (LGA) is |
| 6 | PGA stands for? |
| Ans. | pin grid array (PGA) socket is the integrated circuit packaging standard used in most second- through fifth-generation processor |
| 7 | SECC stands for? |
| Ans. | Single Edge Contact Cartridge |
| 8 | What is LGA socket? |
| Ans. | A land grid array (LGA) socket can provide compressive electrical interconnect between the printed circuit boards (PCB) and the processor. LGA sockets are one of the latest socket technologies for x86 LGA microprocessor packages that range in size up to 4200 pins. |
| 9 | What is PGA socket? |
| Ans. | A pin grid array (PGA) socket is the integrated circuit packaging standard used in most second- through fifth-generation processors. These sockets are either rectangular or square, with pins arranged in a regular array on the underside of the package. |
| 10 | What is SECC? |
| Ans. | SECC stands for Single Edge Contact Cartridge. It is an element that is present in the central processing unit which is designed to carry the Intel microprocessors such as Pentium II and Pentium III, Celeron, and Pentium Pro. The SECC is also known as Slot 1 because it is inserted into |
| 11 | What is the space among the pins in PGA socket? |
| Ans. | Typical PGA's have pin counts ranging from 28-476 and pins are usually spaced 100 mils (approximately 2.54 mm) apart. |
| 12 | What are types of LGA socket? |
| Ans. | LG4667 LGA4891,XLA SOCKET |
| 13 | What LGA number represent? |
| Ans. | SORT OF PIN |
| 14 | What are the types of PGA socket? |
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| 15 | What is CPU cache? |
| Ans. | cache is software or hardware information that is stored and can be accessed much faster when you go to access it again. |
| 16 | Is cache a faster memory? |
| Ans. | cache is software or hardware information that is stored and can be accessed much faster when you go to access it again.YES |
| 17 | Is cache a temporary memory? |
| Ans. | Cache memory is a chip-based computer component that makes retrieving data from the computer's memory more efficient. It acts as a temporary storage area that the computer's processor can retrieve data from easily. |
| 18 | What are the levels of cache? |
| Ans. | evel 1 (L1) is the fastest type of cache memory since it is smallest in size and closest to the processor. Level 2 (L2) has a higher capacity but a slower speed and is situated on the processor chip. Level 3 (L3) cache memory has the largest capacity and is situated on the computer that uses the L2 cache. |
| 19 | What are the types of CPU? |
| Ans. | DUAL CORE QUAD CORE SINGLE CORE CELETON INTEL s |
| 20 | What do you mean by single core processor? |
| Ans. | A single-core processor is a microprocessor with a single core on its die. It performs the fetch-decode-execute cycle once per clock-cycle, as it only runs on one thread. A computer using a single core CPU is generally slower than a multi-core system. |
| 21 | What do you mean by dual core processor? |
| Ans. | A dual-core processor is a CPU that has two processing units in one integrated circuit. The cores work simultaneously to achieve a much faster operating speed than a single-core processor. The cores can handle the tasks simultaneously because each core has its own cache memory and controller. |
| 22 | What do you mean by quad core processor? |
| Ans. | A quad-core processor is a CPU that has four processing units in a single integrated circuit. The cores operate simultaneously in conjunction with other circuits, such as cache, memory management, and I/O ports. Quad-core processors came in 2006 as a successor to dual-core processors. |
| 23 | GPU stands for? |
| Ans. | Graphics processing unit, |
| 24 | What is GPU? |
| Ans. | A graphics processing unit (GPU) is an electronic circuit that can perform mathematical calculations at high speed. Computing tasks like graphics rendering, machine learning (ML), and video editing require the application of similar mathematical operations on a large dataset. |
| 25 | What is execute disable bit? |
| Ans. | he Execute Disable Bit is a hardware-based security feature that can reduce exposure to viruses and malicious-code attacks, and prevent harmful software from executing and propagating on the server or network. |
| 26 | What are the technologies we used to overcome heat of cpu? |
| Ans. | Vents, fans, and heatsinks are designed to help computers regulate this heat so that it doesn't damage your system's delicate internal mechanisms. |
| 27 | What is heat sink? |
| Ans. | A heat sink is a piece of metal that sits on top of a computer chip such as a CPU and draws power away from components by letting it rise through a series of fins. By themselves, heat sinks are passive, meaning they have no moving parts. |
| 28 | What is thermal paste? |
| Ans. | Thermal Paste - A silvery-gray substance that you apply to a processor before installing a cooling solution. It allows for an efficient transfer of heat from the IHS of the processor to the base plate or water block of the CPU cooler that is designed to dissipate that heat. |